

JOSHUA MEIER

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EDUCATION

Harvard University

AB in Computer Science & Chemical and Physical Biology, Cambridge MA May 2018 (expected)

- Relevant Coursework: Algorithms & Complexity, Programming Languages, Data Structures, Organic Chemistry

Associations: Teaching Fellow (CS50), Developers for Development (Project Lead), Harvard Computer Society, Harvard Ventures, Harvard Mock Trial Association, International Relations Council, Data Ventures, Harvard TAMID Investment Group

Academy for the Advancement of Science and Technology

Bergen County Academies, Hackensack NJ Sept. 2010 – June 2014

EXPERIENCE

Square, San Francisco, CA - *Platform Engineering Intern* May 2015 – Aug. 2015

- Developed full-stack webapps and networking services to visualize activity on Square's datacenters.

University of California, San Francisco, CA - *Visiting Scholar under Professor Jason Rock* June 2015 – Aug. 2015

- Investigated cellular mechanisms of mitochondrial quality control in stem cells and cancer.

Weizmann Institute of Science, Rehovot, Israel - *Research Fellow* June 2014 – July 2014

- Designed Higgs boson reconstruction algorithms to improve sensitivity of the CERN ATLAS detector.

Canary: Smart Home Security, New York, NY - *Computer Vision Engineer* Sept. 2013 – June 2014

- Directed research of novel machine learning algorithms and heuristics to power low-cost home security systems.

Harvard Medical School, Boston, MA - *Visiting Scholar under Professor David Sinclair* June 2013 – Aug. 2013

- Applied bioinformatics and molecular biology tools to identify mitochondrial regulatory elements.

Technion - Israel Institute of Technology, Haifa, Israel - *Research Fellow* July 2012 – Aug. 2012

- Identified Skp1 as a novel therapeutic target for Parkinson's disease and established its pathological role.

Columbia University Medical Center, New York, NY - *Software Engineer* June 2012 – June 2013

- Designed iOS software to simulate vascular structure; collaborated with physicians for emergency room testing.

Provita Pharmaceuticals, Hackensack, NJ - *Chief Executive Officer* Sept. 2011 – Oct. 2013

- Directed development and designed concept of transgenic mosquitoes engineered to deliver vaccines.

HONORS AND AWARDS

- Intel International Science and Engineering Fair 2014, Best of Category and First Place Winner
- Intel Science Talent Search 2014, Fourth Place National Overall Winner (\$40,000 Scholarship)
- Siemens Competition 2013, Third Place National Overall Winner (\$40,000 Scholarship)
- Selected by Intel and C2-MTL as an EYE50 (50 Emerging Young Entrepreneurs under age 30), 2013
- USA Computing Olympiad, Gold Division Qualifier & Top 12 High School Juniors Nationwide, 2012-2013
- Featured by [CNN](#), [People Magazine](#), [Scientific American](#), [Fast Company](#), [Smithsonian Magazine](#), [AOL Video](#)

PROJECTS AND ACTIVITIES

- Developed [UberLater](#), [FireStop](#), [Jewish Treats](#), [Mishneh Torah](#), [iWillNotProcrastinate](#), [The Flying Syringe](#)
- Founder of non-profit [Rescue the Voice](#); Speaker at [TEDxRedmond](#); Policy Debater (over 20 prizes)

PUBLICATIONS

- Meier, J. & Pergolizzi, R. (2015). *Control of Induced Pluripotent Stem Cell Aging by Modulation of Mitochondrial DNA Deletions*. Manuscript submitted for publication.
- Meier, J. (2014). *Methods for Treating Diseases by Modulating Mitochondrial DNA Deletions*. Patent No. WO2015002892.
- Meier, J. (2013). *A Method to Selectively Induce Senescence in Cancer Cells*. Patent No. US PTO 61,831,918.
- Meier, J., Calabro, A., Queenan, C. & Pergolizzi, R. (2013). The missing genome: mitochondrial DNA deletions in stem cells. *Microsc Microanal*, 19(suppl 2), 24-25.